



## FILEON eLIBRARY ENTERPRISE SUITE BI-DIRECTIONAL INTEGRATION USING MIDDLEWARE

### VERTICALS:

HEALTH CARE, FINANCIAL,  
LOGISTICS, BANKING, MORE

### FILEON – INTEGRATION & CONFIGURATION

- SOLUTIONS OVERVIEW
- CONFIGURATION SCREENS
- INTEGRATION OVERVIEW
- INTERFACEWARE – IGUANA

February 3, 2007

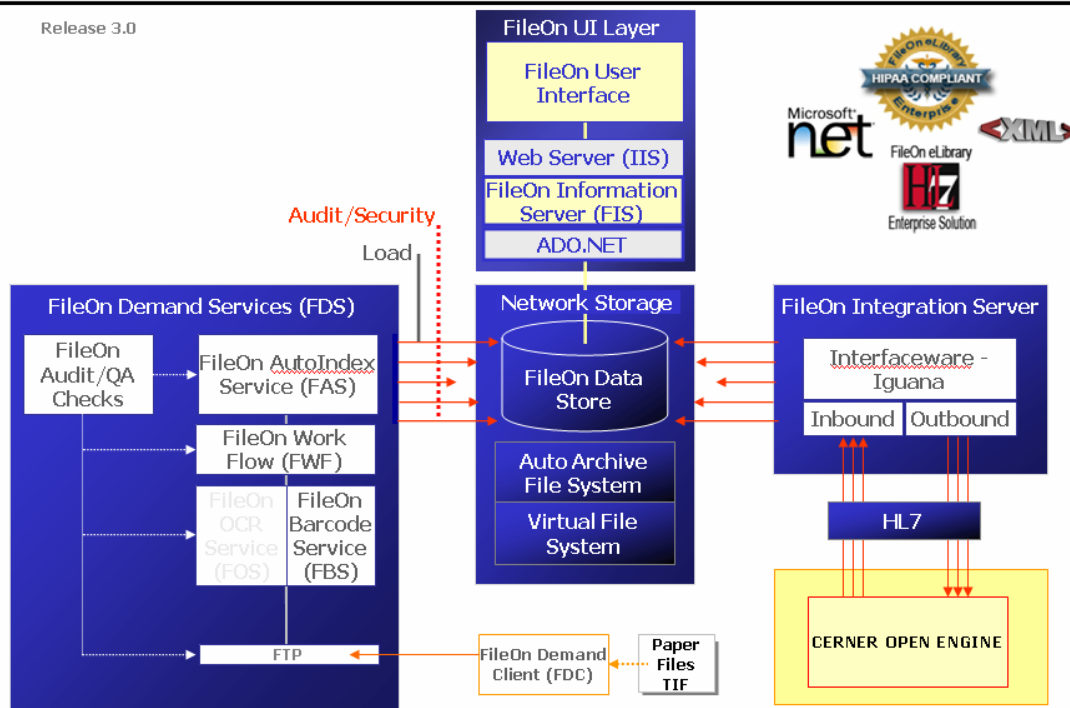
FileOn, Division of  
VERTX SYSTEMS, LLC  
[www.fileon.com](http://www.fileon.com)  
(203) 227-9669

## Solutions Overview

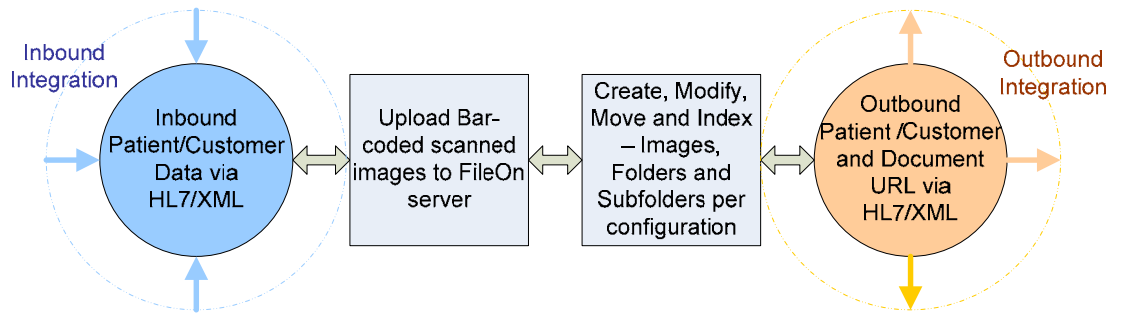
FileOn eLibrary Enterprise Suite is a solution that can be implemented in all types of organizations as a stand alone solution or as a bolt-on document/content management repository.

- FileOn Demand Client Software – used to upload files to server using FTP
- FileOn Demand Service – Server software running on MS Windows 2003 Server. This automatically reads barcodes and checks the database for messages before processing the images and creating the information repository based on configuration settings
- FileOn Data Repository – SAN/NAS storage service with file system support and MS SQL Server 2000 data repository
- FileOn Information Server – GUI interface for end user access using MS Windows 2003 Server and IIS
- FileOn Integration Server – Interfaceware Iguana Inbound and Outbound messaging services

## Architecture Overview



High level information and process flow:



Enterprise Patient Care Solution is configured to be a turn-key Hospital patient care solution. This paradigm can be re-configured to support the needs of many other industries, provided the following information is properly identified and attached to the physical paper as identifiers:

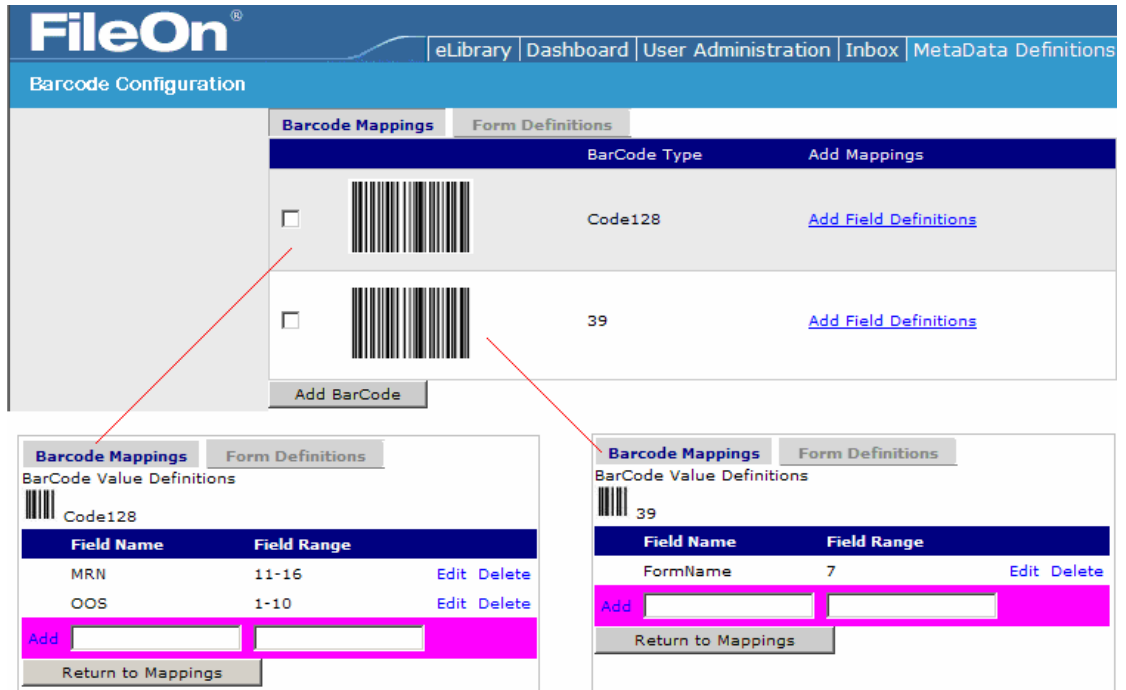
1. MRN – Medical Record Number (unique)
2. OOS – Patient Visit Id (unique)
3. Form ID – Form Definition (unique)

The barcode Code 128 can be segmented to include other information as per customer requirement.

MRN and OOS can be changed to support – CUSTOMER ID, COMPANY ID or CUSTOMER ID, TRANSACTION ID, etc. There is no limit to the types of identifiers FileOn solution can support and/or process. Additionally, FileOn can customize the solution as required to support 2D barcode, RFID or other solutions as required.

The screens below provide more details regarding the configuration ability of the system using the barcode. This configuration is typically handled by FileOn staff and several cycles are recommended prior to production rollout to ensure proper configuration of the server for automated processing needs of the customer.

## Barcode Configuration

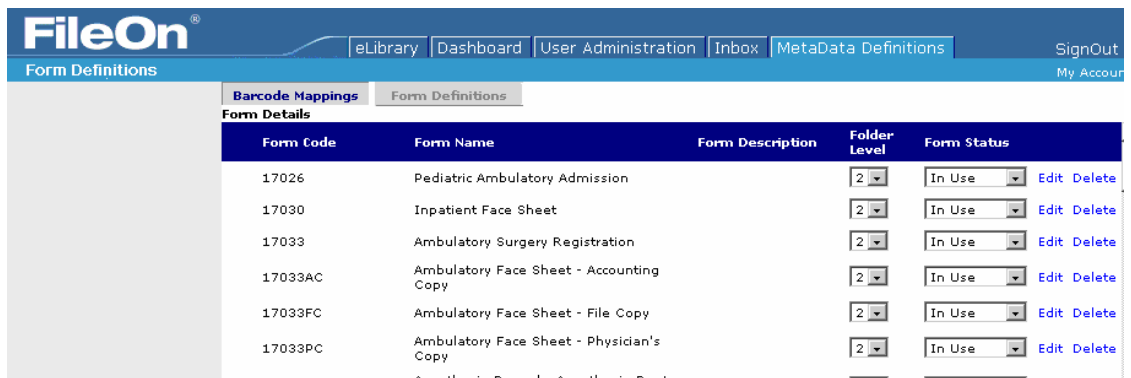


The screenshot shows the FileOn Barcode Configuration interface. The main view is under the 'Barcode Mappings' tab, showing a table of Barcode Types. Two types are listed: Code128 and 39. Each type has a checkbox, a barcode image, and a link to 'Add Field Definitions'. Below this are two detailed views of Barcode Value Definitions. The left view is for Code128, showing a table with columns 'Field Name' and 'Field Range'. It lists MRN (11-16) and OOS (1-10). The right view is for 39, showing a table with columns 'Field Name' and 'Field Range'. It lists FormName (7). Both views have an 'Add' button and a 'Return to Mappings' button.

Unlimited number of forms can be defined and placed in different levels. Levels are folders and subfolders in the FileOn repository. The concept of levels is as follows:

- ➔ Root Folder Level 1: Patient Last Name, First Name, MRN, DOB
- ➔ Subfolder Level 2: Patient Last Name, MRN, OOS, Date of Visit, Doctor
- ➔ Scanned Image: Patient Last Name, First Name, MRN, OOS, Form Label

The above is the configuration settings for Hospitals which can be changed to support repository structural needs of other Industries and/or customers.

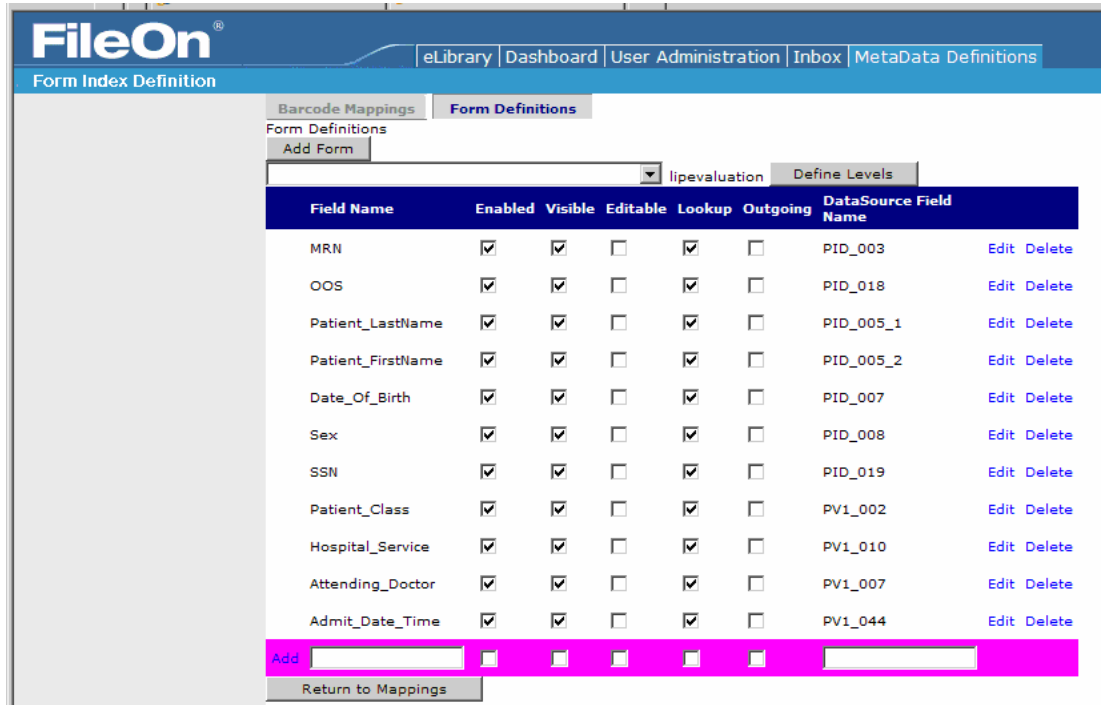


The screenshot shows the FileOn Form Definitions interface. The main view is under the 'Form Definitions' tab, showing a table of Form Details. The table has columns: Form Code, Form Name, Form Description, Folder Level, and Form Status. The data is as follows:

Form Code	Form Name	Form Description	Folder Level	Form Status
17026	Pediatric Ambulatory Admission		2	In Use
17030	Inpatient Face Sheet		2	In Use
17033	Ambulatory Surgery Registration		2	In Use
17033AC	Ambulatory Face Sheet - Accounting Copy		2	In Use
17033FC	Ambulatory Face Sheet - File Copy		2	In Use
17033PC	Ambulatory Face Sheet - Physician's Copy		2	In Use
	Anesthesia Record - Anesthesia Dept			

## Form Index Definition & Configuration

The next section discusses Form Index Definition and Configuration. The concept is to bring data fields from external sources and map them to internal Fields and setup properties for them. These Data Sources can be changed as required to be customer specific. There are no restrictions on the number of fields that can be added and mapped to support any install.



The screenshot shows the FileOn web interface for 'Form Index Definition'. The breadcrumb trail is 'eLibrary | Dashboard | User Administration | Inbox | MetaData Definitions'. The main heading is 'Form Index Definition'. There are two tabs: 'Barcode Mappings' and 'Form Definitions', with 'Form Definitions' selected. Below the tabs is a 'Form Definitions' section with an 'Add Form' button. A dropdown menu is set to 'lpevaluation' and a 'Define Levels' button is visible. The main area contains a table with the following columns: Field Name, Enabled, Visible, Editable, Lookup, Outgoing, DataSource Field Name, and Edit Delete. The table lists 12 fields with their respective properties and actions.

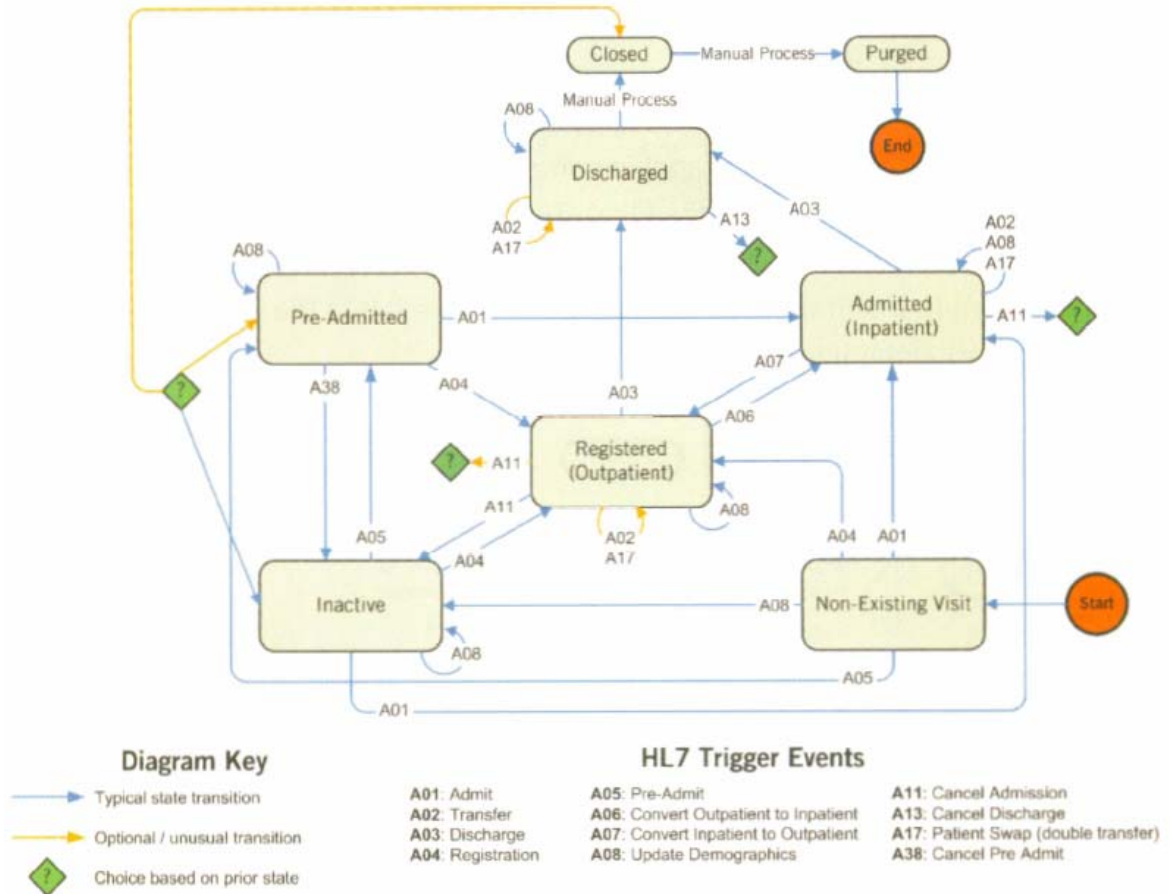
Field Name	Enabled	Visible	Editable	Lookup	Outgoing	DataSource Field Name	Edit Delete
MRN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID_003	Edit Delete
OOS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID_018	Edit Delete
Patient_LastName	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID_005_1	Edit Delete
Patient_FirstName	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID_005_2	Edit Delete
Date_Of_Birth	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID_007	Edit Delete
Sex	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID_008	Edit Delete
SSN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PID_019	Edit Delete
Patient_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PV1_002	Edit Delete
Hospital_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PV1_010	Edit Delete
Attending_Doctor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PV1_007	Edit Delete
Admit_Date_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PV1_044	Edit Delete

At the bottom of the table, there is an 'Add' button with a dropdown menu and a 'Return to Mappings' button.

## HL7/XML Inbound & Outbound Integration

FileOn has worked closely with Interfaceware ([www.Interfaceware.com](http://www.Interfaceware.com)) to integrate their Iguana product with FileOn eLibrary Enterprise suite. Interfaceware has been the leading provider of HL7 based middleware product to most of the solutions providers for over 15 years. The middleware is loosely coupled with eLibrary, therefore, Iguana can be replaced with other middleware solutions if a customer required this change.

## Typical ADT Transactions and Associated Patient Account State Transitions



### Inbound Messages

There are two parts to the messaging services, the inbound messages coming from external systems to FileOn elibrary via Iguana as HL7 messages. All of the messages are processed, identified, persisted into the FileOn database and then parsed into usable data instead of a single message string.

Here is a list of Inbound Messages currently configured:

- A01: Admit Patient
- A04: Registration of an Outpatient
- A05: Pre-Admit Inpatient or Outpatient
- A08: Update Patient Visit Information
- A31: Update Person Information



ADT INTERFACE (ECLIPSYS →FileOn)

Trigger events – Eclipsys Registration Events

HL7 Event Types	Action Taken By FileOn
A01 Admit a patient	Add or update meta-data. Add or update root folder (mrn). Add or update sub folder (s)(oos)
A04 Registration of an Outpatient	Add or update meta-data. Add or update root folder (mrn). Add or update sub folder (s)(oos)
A05 Pre-Admit Inpatient or Outpatient	Add or update meta-data. Add or update root folder (mrn). Add or update sub folder (s)(oos)
A08 Update patient visit information	Add or update meta-data. Add or update root folder (mrn). Add or update sub folder(s) (oos). Note: Updates to data elements such as patient name, DOB, SSN should be reflected in root directory and sub-folder names.
A31 Update Person Information	Add or update meta-data. Add or update root folder (mrn). Add or update sub folder(s) (oos)

*Sample Message Example*

```
MSH|^~\&|SDK|NH|||19990217133505||ADT^A31|19990217^5|P|2.2||
EVN|A31|19990217133500
PID|1|302|600021||UTEST^BETTY||19730715|F|MELENDEZ|H|3025 WEST MAIN AVE^^NEW
CANAAN^CT^068400000|99|(203)775-9458|(203)852-2000|S|D|||055223345|||Y
```

```
MSH|^~\&|SDK|NH|||19990217161403||ADT^A01|19990217^103|P|2.2||
EVN|A01|19990217161400
PID|1|319|600038||UTEST^PHIL||19700701|M|PEDRO|N|1335 BEDFORD
ST^^STAMFORD^CT^069040000|99|(203)348-2525|(203)852-2000|E|M||1000000065|001255566|||U
PV1|1|I|CP3^312^1|2|||383^WHITNEY^ALDEN^E.|3002^CAMP^WALER|||PSY|||8|||383^WHITNEY^ALD
EN^E.|1|1000000065||PSY|||||||19990217161250
```

FileOn processing services reads the barcodes from scanned images. The MRN, OOS and Form Types are automatically indexed using the data parsed and saved in the database extrapolated from the HL7 messages. Any changes to the record is automatically kept up to date using inbound HL7 messages, therefore, the FileOn repository is always kept current.

The solution automatically updates all levels with any data changes to the system, thereby maintaining a true up to date real-time information repository. Once the processing is completed FileOn system sends in integrated outbound HL7 message for external integration. Thereby, inbound & outbound integration is simple and effective using FileOn.

**Inbound Data Auto-Updates & Maintains mapped information at real-time. No human interaction required.**

MRN	544808
POS	1001106116
Patient_LastName	ABE
Patient_FirstName	JOY
Date_Of_Birth	9-20-1982
Sex	F
SSN	129705860
Patient_Class	ER
Hospital_Service	ER
Attending_Doctor	981 PERKINS
Admt_Date_Time	9-10-2006 12:00 PM

**Medical Charges:**

536	L1 - minor	6022	Wound	Scalp/arms/legs
547	L4 - low sev	6023	Wound	6187 1.1 - 2.5 cm
597	L4 - low sev	6024	Wound	6188 2.6 - 7.5 cm
665	L4 - low sev	6025	Wound	61133 each adlt 5 cm or less
707	L0 - no drp	6026	Wound	Forehead/cheek/shoulder/neck/wrist/hand/
716	Critical care, 30-74 mins	6027	Wound	6189 1.1 - 2.5 cm
724	Critical care, 75-119 mins	6028	Wound	6190 2.6 - 7.5 cm
732	Critical care, 120-164 mins	6029	Wound	61132 each adlt 5 cm or less
740	Critical care, 165-209 mins	6030	Wound	6172 1.1 - 2.5 cm
748	Critical care, 210-254 mins	6031	Wound	6173 2.6 - 7.5 cm
756	Critical care, 255-299 mins	6032	Wound	61136 each adlt 5 cm or less
764	Critical care, 300-344 mins	6033	Wound	6174 1.1 - 2.5 cm
772	Critical care, 345-389 mins	6034	Wound	6175 2.6 - 7.5 cm
780	Critical care, 390-434 mins	6035	Wound	61137 each adlt 5 cm or less
788	Critical care, 435-479 mins	6036	Wound	6176 1.1 - 2.5 cm
796	Critical care, 480-524 mins	6037	Wound	6177 2.6 - 7.5 cm
804	Critical care, 525-569 mins	6038	Wound	61138 each adlt 5 cm or less
812	Critical care, 570-614 mins	6039	Wound	6178 1.1 - 2.5 cm
820	Critical care, 615-659 mins	6040	Wound	6179 2.6 - 7.5 cm
828	Critical care, 660-704 mins	6041	Wound	61139 each adlt 5 cm or less
836	Critical care, 705-749 mins	6042	Wound	6180 1.1 - 2.5 cm
844	Critical care, 750-794 mins	6043	Wound	6181 2.6 - 7.5 cm
852	Critical care, 795-839 mins	6044	Wound	61140 each adlt 5 cm or less
860	Critical care, 840-884 mins	6045	Wound	6182 1.1 - 2.5 cm
868	Critical care, 885-929 mins	6046	Wound	6183 2.6 - 7.5 cm
876	Critical care, 930-974 mins	6047	Wound	61141 each adlt 5 cm or less
884	Critical care, 975-1019 mins	6048	Wound	6184 1.1 - 2.5 cm
892	Critical care, 1020-1064 mins	6049	Wound	6185 2.6 - 7.5 cm
900	Critical care, 1065-1109 mins	6050	Wound	61142 each adlt 5 cm or less
908	Critical care, 1110-1154 mins	6051	Wound	6186 1.1 - 2.5 cm
916	Critical care, 1155-1200 mins	6052	Wound	6187 2.6 - 7.5 cm
924	Critical care, 1201-1245 mins	6053	Wound	61143 each adlt 5 cm or less
932	Critical care, 1246-1290 mins	6054	Wound	6188 1.1 - 2.5 cm
940	Critical care, 1291-1335 mins	6055	Wound	6189 2.6 - 7.5 cm
948	Critical care, 1336-1380 mins	6056	Wound	61144 each adlt 5 cm or less
956	Critical care, 1381-1425 mins	6057	Wound	6190 1.1 - 2.5 cm
964	Critical care, 1426-1470 mins	6058	Wound	6191 2.6 - 7.5 cm
972	Critical care, 1471-1515 mins	6059	Wound	61145 each adlt 5 cm or less
980	Critical care, 1516-1560 mins	6060	Wound	6192 1.1 - 2.5 cm
988	Critical care, 1561-1605 mins	6061	Wound	6193 2.6 - 7.5 cm
996	Critical care, 1606-1650 mins	6062	Wound	61146 each adlt 5 cm or less
1004	Critical care, 1651-1695 mins	6063	Wound	6194 1.1 - 2.5 cm
1012	Critical care, 1696-1740 mins	6064	Wound	6195 2.6 - 7.5 cm
1020	Critical care, 1741-1785 mins	6065	Wound	61147 each adlt 5 cm or less
1028	Critical care, 1786-1830 mins	6066	Wound	6196 1.1 - 2.5 cm
1036	Critical care, 1831-1875 mins	6067	Wound	6197 2.6 - 7.5 cm
1044	Critical care, 1876-1920 mins	6068	Wound	61148 each adlt 5 cm or less
1052	Critical care, 1921-1965 mins	6069	Wound	6198 1.1 - 2.5 cm
1060	Critical care, 1966-2010 mins	6070	Wound	6199 2.6 - 7.5 cm
1068	Critical care, 2011-2055 mins	6071	Wound	61149 each adlt 5 cm or less
1076	Critical care, 2056-2100 mins	6072	Wound	6200 1.1 - 2.5 cm
1084	Critical care, 2101-2145 mins	6073	Wound	6201 2.6 - 7.5 cm
1092	Critical care, 2146-2190 mins	6074	Wound	61150 each adlt 5 cm or less
1100	Critical care, 2191-2235 mins	6075	Wound	6202 1.1 - 2.5 cm
1108	Critical care, 2236-2280 mins	6076	Wound	6203 2.6 - 7.5 cm
1116	Critical care, 2281-2325 mins	6077	Wound	61151 each adlt 5 cm or less
1124	Critical care, 2326-2370 mins	6078	Wound	6204 1.1 - 2.5 cm
1132	Critical care, 2371-2415 mins	6079	Wound	6205 2.6 - 7.5 cm
1140	Critical care, 2416-2460 mins	6080	Wound	61152 each adlt 5 cm or less
1148	Critical care, 2461-2505 mins	6081	Wound	6206 1.1 - 2.5 cm
1156	Critical care, 2506-2550 mins	6082	Wound	6207 2.6 - 7.5 cm
1164	Critical care, 2551-2595 mins	6083	Wound	61153 each adlt 5 cm or less
1172	Critical care, 2596-2640 mins	6084	Wound	6208 1.1 - 2.5 cm
1180	Critical care, 2641-2685 mins	6085	Wound	6209 2.6 - 7.5 cm
1188	Critical care, 2686-2730 mins	6086	Wound	61154 each adlt 5 cm or less
1196	Critical care, 2731-2775 mins	6087	Wound	6210 1.1 - 2.5 cm
1204	Critical care, 2776-2820 mins	6088	Wound	6211 2.6 - 7.5 cm
1212	Critical care, 2821-2865 mins	6089	Wound	61155 each adlt 5 cm or less
1220	Critical care, 2866-2910 mins	6090	Wound	6212 1.1 - 2.5 cm
1228	Critical care, 2911-2955 mins	6091	Wound	6213 2.6 - 7.5 cm
1236	Critical care, 2956-3000 mins	6092	Wound	61156 each adlt 5 cm or less
1244	Critical care, 3001-3045 mins	6093	Wound	6214 1.1 - 2.5 cm
1252	Critical care, 3046-3090 mins	6094	Wound	6215 2.6 - 7.5 cm
1260	Critical care, 3091-3135 mins	6095	Wound	61157 each adlt 5 cm or less
1268	Critical care, 3136-3180 mins	6096	Wound	6216 1.1 - 2.5 cm
1276	Critical care, 3181-3225 mins	6097	Wound	6217 2.6 - 7.5 cm
1284	Critical care, 3226-3270 mins	6098	Wound	61158 each adlt 5 cm or less
1292	Critical care, 3271-3315 mins	6099	Wound	6218 1.1 - 2.5 cm
1300	Critical care, 3316-3360 mins	6100	Wound	6219 2.6 - 7.5 cm
1308	Critical care, 3361-3405 mins	6101	Wound	61159 each adlt 5 cm or less
1316	Critical care, 3406-3450 mins	6102	Wound	6220 1.1 - 2.5 cm
1324	Critical care, 3451-3495 mins	6103	Wound	6221 2.6 - 7.5 cm
1332	Critical care, 3496-3540 mins	6104	Wound	61160 each adlt 5 cm or less
1340	Critical care, 3541-3585 mins	6105	Wound	6222 1.1 - 2.5 cm
1348	Critical care, 3586-3630 mins	6106	Wound	6223 2.6 - 7.5 cm
1356	Critical care, 3631-3675 mins	6107	Wound	61161 each adlt 5 cm or less
1364	Critical care, 3676-3720 mins	6108	Wound	6224 1.1 - 2.5 cm
1372	Critical care, 3721-3765 mins	6109	Wound	6225 2.6 - 7.5 cm
1380	Critical care, 3766-3810 mins	6110	Wound	61162 each adlt 5 cm or less
1388	Critical care, 3811-3855 mins	6111	Wound	6226 1.1 - 2.5 cm
1396	Critical care, 3856-3900 mins	6112	Wound	6227 2.6 - 7.5 cm
1404	Critical care, 3901-3945 mins	6113	Wound	61163 each adlt 5 cm or less
1412	Critical care, 3946-3990 mins	6114	Wound	6228 1.1 - 2.5 cm
1420	Critical care, 3991-4035 mins	6115	Wound	6229 2.6 - 7.5 cm
1428	Critical care, 4036-4080 mins	6116	Wound	61164 each adlt 5 cm or less
1436	Critical care, 4081-4125 mins	6117	Wound	6230 1.1 - 2.5 cm
1444	Critical care, 4126-4170 mins	6118	Wound	6231 2.6 - 7.5 cm
1452	Critical care, 4171-4215 mins	6119	Wound	61165 each adlt 5 cm or less
1460	Critical care, 4216-4260 mins	6120	Wound	6232 1.1 - 2.5 cm
1468	Critical care, 4261-4305 mins	6121	Wound	6233 2.6 - 7.5 cm
1476	Critical care, 4306-4350 mins	6122	Wound	61166 each adlt 5 cm or less
1484	Critical care, 4351-4395 mins	6123	Wound	6234 1.1 - 2.5 cm
1492	Critical care, 4396-4440 mins	6124	Wound	6235 2.6 - 7.5 cm
1500	Critical care, 4441-4485 mins	6125	Wound	61167 each adlt 5 cm or less
1508	Critical care, 4486-4530 mins	6126	Wound	6236 1.1 - 2.5 cm
1516	Critical care, 4531-4575 mins	6127	Wound	6237 2.6 - 7.5 cm
1524	Critical care, 4576-4620 mins	6128	Wound	61168 each adlt 5 cm or less
1532	Critical care, 4621-4665 mins	6129	Wound	6238 1.1 - 2.5 cm
1540	Critical care, 4666-4710 mins	6130	Wound	6239 2.6 - 7.5 cm
1548	Critical care, 4711-4755 mins	6131	Wound	61169 each adlt 5 cm or less
1556	Critical care, 4756-4800 mins	6132	Wound	6240 1.1 - 2.5 cm
1564	Critical care, 4801-4845 mins	6133	Wound	6241 2.6 - 7.5 cm
1572	Critical care, 4846-4890 mins	6134	Wound	61170 each adlt 5 cm or less
1580	Critical care, 4891-4935 mins	6135	Wound	6242 1.1 - 2.5 cm
1588	Critical care, 4936-4980 mins	6136	Wound	6243 2.6 - 7.5 cm
1596	Critical care, 4981-5025 mins	6137	Wound	61171 each adlt 5 cm or less
1604	Critical care, 5026-5070 mins	6138	Wound	6244 1.1 - 2.5 cm
1612	Critical care, 5071-5115 mins	6139	Wound	6245 2.6 - 7.5 cm
1620	Critical care, 5116-5160 mins	6140	Wound	61172 each adlt 5 cm or less
1628	Critical care, 5161-5205 mins	6141	Wound	6246 1.1 - 2.5 cm
1636	Critical care, 5206-5250 mins	6142	Wound	6247 2.6 - 7.5 cm
1644	Critical care, 5251-5295 mins	6143	Wound	61173 each adlt 5 cm or less
1652	Critical care, 5296-5340 mins	6144	Wound	6248 1.1 - 2.5 cm
1660	Critical care, 5341-5385 mins	6145	Wound	6249 2.6 - 7.5 cm
1668	Critical care, 5386-5430 mins	6146	Wound	61174 each adlt 5 cm or less
1676	Critical care, 5431-5475 mins	6147	Wound	6250 1.1 - 2.5 cm
1684	Critical care, 5476-5520 mins	6148	Wound	6251 2.6 - 7.5 cm
1692	Critical care, 5521-5565 mins	6149	Wound	61175 each adlt 5 cm or less
1700	Critical care, 5566-5610 mins	6150	Wound	6252 1.1 - 2.5 cm
1708	Critical care, 5611-5655 mins	6151	Wound	6253 2.6 - 7.5 cm
1716	Critical care, 5656-5700 mins	6152	Wound	61176 each adlt 5 cm or less
1724	Critical care, 5701-5745 mins	6153	Wound	6254 1.1 - 2.5 cm
1732	Critical care, 5746-5790 mins	6154	Wound	6255 2.6 - 7.5 cm
1740	Critical care, 5791-5835 mins	6155	Wound	61177 each adlt 5 cm or less
1748	Critical care, 5836-5880 mins	6156	Wound	6256 1.1 - 2.5 cm
1756	Critical care, 5881-5925 mins	6157	Wound	6257 2.6 - 7.5 cm
1764	Critical care, 5926-5970 mins	6158	Wound	61178 each adlt 5 cm or less
1772	Critical care, 5971-6015 mins	6159	Wound	6258 1.1 - 2.5 cm
1780	Critical care, 6016-6060 mins	6160	Wound	6259 2.6 - 7.5 cm
1788	Critical care, 6061-6105 mins	6161	Wound	61179 each adlt 5 cm or less
1796	Critical care, 6106-6150 mins	6162	Wound	6260 1.1 - 2.5 cm
1804	Critical care, 6151-6195 mins	6163	Wound	6261 2.6 - 7.5 cm
1812	Critical care, 6196-6240 mins	6164	Wound	61180 each adlt 5 cm or less
1820	Critical care, 6241-6285 mins	6165	Wound	6262 1.1 - 2.5 cm
1828	Critical care, 6286-6330 mins	6166	Wound	6263 2.6 - 7.5 cm
1836	Critical care, 6331-6375 mins	6167	Wound	61181 each adlt 5 cm or less
1844	Critical care, 6376-6420 mins	6168	Wound	6264 1.1 - 2.5 cm
1852	Critical care, 6421-6465 mins	6169	Wound	6265 2.6 - 7.5 cm
1860	Critical care, 6466-6510 mins	6170	Wound	61182 each adlt 5 cm or less
1868	Critical care, 6511-6555 mins	6171	Wound	6266 1.1 - 2.5 cm
1876	Critical care, 6556-6600 mins	6172	Wound	6267 2.6 - 7.5 cm
1884	Critical care, 6601-6645 mins	6173	Wound	61183 each adlt 5 cm or less
1892	Critical care, 6646-6690 mins	6174	Wound	6268 1.1 - 2.5 cm
1900	Critical care, 6691-6735 mins	6175	Wound	6269 2.6 - 7.5 cm
1908	Critical care, 6736-6780 mins	6176	Wound	61184 each adlt 5 cm or less
1916	Critical care, 6781-6825 mins	6177	Wound	6270 1.1 - 2.5 cm
1924	Critical care, 6826-6870 mins	6178	Wound	6271 2.6 - 7.5 cm
1932	Critical care, 6871-6915 mins	6179	Wound	61185 each adlt 5 cm or less
1940	Critical care, 6916-6960 mins	6180	Wound	6272 1.1 - 2.5 cm
1948	Critical care, 6961-7005 mins	6181	Wound	6273 2.6 - 7.5 cm
1956	Critical care, 7006-7050 mins	6182	Wound	61186 each adlt 5 cm or less
1964	Critical care, 7051-7095 mins	6183	Wound	6274 1.1 - 2.5 cm
1972	Critical care, 7096-7140 mins	6184	Wound	6275 2.6 - 7.5 cm
1980	Critical care, 7141-7185 mins	6185	Wound	61187 each adlt 5 cm or less
1988	Critical care, 7186-7230 mins	6186	Wound	6276 1.1 - 2.5 cm
1996	Critical care, 7231-7275 mins	6187	Wound	6277 2.6 - 7.5 cm
2004	Critical care, 7276-7320 mins	6188	Wound	61188 each adlt 5 cm or less
2012	Critical care, 7321-7365 mins	6189	Wound	6278 1.1 - 2.5 cm
2020	Critical care, 7366-7410 mins	6190	Wound	6279 2.6 - 7.5 cm
2028	Critical care, 7411-7455 mins	6191	Wound	61189 each adlt 5 cm or less
2036	Critical care, 7456-7500 mins	6192	Wound	6280 1.1 - 2.5 cm
2044	Critical care, 7501-7545 mins	6193	Wound	6281 2.6 - 7.5 cm
2052	Critical care, 7546-7590 mins	6194	Wound	61190 each adlt 5 cm or less
2060	Critical care, 7591-7635 mins	6195	Wound	6282 1.1 - 2.5 cm
2068	Critical care, 7636-7680 mins	6196	Wound	6283 2.6 - 7.5 cm
2076	Critical care, 7681-7725 mins	6197	Wound	61191 each adlt 5 cm or less
2084	Critical care, 7726-7770 mins	6198	Wound	6284 1.1 - 2.5 cm
2092	Critical care, 7771-7815 mins	6199	Wound	6285 2.6 - 7.5 cm
2100	Critical care, 7816-7860 mins	6200	Wound	61192 each adlt 5 cm or less

URL INTERFACE (FileOn →Cerner)

Trigger events

HL7 Event Types	Action Taken By FileOn
XXX First time a document is scanned for a patient	Generate outbound message containing a URL that points to the root folder for the specific patient.
XXX Receive any additional scanned images to existing patient	Generate outbound message containing a URL that points to the root folder for the specific patient.

*Sample Message Example*

```
MSH|^~\&| FILEON|NH|CERNER|NH|19990217133505||ORU^R03|19990217^5|P|2.2||
PID|1||600021||UTEST^BETTY||19730715|F|||||||055223345|||
ORC|RE|
OBR|1||SCANDOC^SCANNED DOCUMENTS|||20040803101856|||||||MDOC|F
OBX|1|RP|SCANDOC-RP^SCANDOC-RP|1|URL STRING GOES HERE|
```

## Integration with Enterprise Systems

FileOn eLibrary Enterprise Suite can be repurposed to support the integration needs of any type of enterprise solution that uses XML and/or data level integration.

The inbound and outbound messages can simply be re-mapped using Iguana and once the data is placed in the FileOn database, eLibrary can auto-index and process scanned images as required for specific customer needs.



Please refer to Interfaceware online manual for more details:  
<http://www.interfaceware.com/manual/index.html>